

IN THE CLAIMS

1 (Currently Amended). A method of calibrating a digital camera for ambient light conditions comprising:

~~measuring the ambient white light intensity;~~

sequentially illuminating a plurality of lights arranged circumferentially about a white light transmissive plate, each of a different wavelength;

measuring the intensity of each of said lights ~~together with the white light intensity~~; and

using said measurements to calibrate said digital camera for the ambient light conditions.

2 (Currently Amended). The method of claim 1 ~~31~~ wherein measuring the ambient white light intensity is implemented automatically in response to a request for calibration.

3 (Currently Amended). The method of claim 1 ~~31~~ wherein measuring the ambient white light intensity is implemented automatically in response to the detection of a change in ambient light conditions.

4 (Currently Amended). The method of claim 1 ~~31~~ wherein measuring the ambient light conditions includes imaging an external device.

5 (Currently Amended). The method of claim 1 ~~31~~ wherein measuring the ambient white light intensity involves measuring the light transmitted by a light emitting element coupled to said camera.

6 (Original). The method of claim 5 wherein measuring the ambient white light intensity includes moving a white light transmissive element into the optical axis of said digital camera.

7 (Original). The method of claim 1 wherein illuminating a plurality of lights involves illuminating at least four lights of different wavelengths.

8 (Original). The method of claim 1 wherein illuminating a plurality of lights includes illuminating at least five lights of different wavelengths.

9 (Original). The method of claim 4 further including using pattern recognition techniques to locate an external calibration device.

10 (Currently Amended). The method of claim 1-31 further including measuring the white light reflected by an external device and identifying indicia on said external device containing information about the optical characteristics of said external device.

11 (Currently Amended). The method of claim 1-31 wherein measuring the ambient white light intensity includes measuring the light transmitted through a device coupled to said camera and capturing information recorded on said device about the optical characteristics of said device.

12 (Currently Amended). An article comprising a medium for storing instructions that, if executed, enable cause a processor-based system to:

~~cause a measurement of the ambient white light intensity to be taken;~~

sequentially illuminate a plurality of lights arranged circumferentially, each of a different wavelength;

automatically measure the ambient white light intensity of each of said lights in response to a request for calibration ~~cause a measurement to be taken of the intensity of each of said lights together with the white light intensity;~~ and

calibrate said digital camera for the ambient lighting conditions using said ~~measurement~~ measurements.

13 (Cancel).

14 (Currently Amended). The article of claim 12-32 further storing instructions that cause a processor-based system to automatically cause measurements of the white light intensity to be taken in response to the detection of a change in ambient light conditions.

15 (Original). The article of claim 12 further storing instructions that cause a processor-based system to cause a measurements to be taken of the light transmitted by a light emitting element coupled to said camera.

16 (Original). The article of claim 12 further storing instructions that cause a processor-based system to use pattern recognition techniques to locate an external calibration device.

17 (Original). The article of claim 12 further storing instructions that cause a processor-based system to measure the white light reflected by an external device and identify indicia on said external device containing information about the optical characteristics of said external device.

18 (Original). The article of claim 12 further storing instructions that cause a processor-based system to measure the light transmitted though a device coupled to said camera and capture information recorded on said device about the optical characteristics of said device.

19 (Currently Amended). A portable device for calibrating a digital camera for varying ambient light conditions comprising:

a housing having a white surface, said housing including two slidably connecting housing portions, one of said portions including said white surface;

a plurality of light emitting elements adapted to illuminate said white surface; and

a control circuit adapted to sequentially illuminate said light emitting elements, the other of said housing portions including said control circuit, a battery and said light emitting elements.

20 (Currently Amended). The device of claim 4-19 including indicia on said white surface containing coded information about the optical characteristics of said white surface.

21 (Original). The device of claim 19 including five light emitting elements, each emitting light of a different wavelength, said elements coupled to said control circuit.

22 (Original). The device of claim 21 including two light emitting elements emitting light of different wavelengths corresponding to a first primary color, two light emitting elements emitting light of different wavelengths corresponding to a second primary color and at least one light emitting element emitting light of the wavelength of a third primary color.

23 (Cancel).

24 (Currently Amended). A digital camera comprising:
an imaging sensor having an optical axis;
a white light transmissive plate mounted in ~~the~~ said optical axis of said sensor and displaceable from said optical axis; and
a plurality of light emitting elements arranged circumferentially about adapted to illuminate said white light transmitting plate with light of a plurality of different wavelengths to illuminate said white light transmissive plate with a plurality of different wavelengths; and
a control circuit to sequentially illuminate said light emitting elements.

25 (Original) The camera of claim 24 wherein said white light transmissive plate is rotatable out of the optical axis of said sensor.

26 (Cancel).

27 (Currently Amended). The ~~device~~ camera of claim 24 including two light emitting elements emitting light of different wavelengths corresponding to a first primary color, two light emitting elements emitting light of different wavelengths corresponding to a second primary color and at least one light emitting element emitting light of the wavelength of a third primary color.

28 (Original). The camera of claim 24 adapted to take a plurality of measurements and to correct color based on ambient light conditions.

29 (Original). The camera of claim 28 including a processor adapted to automatically correct color when a change in ambient light conditions is detected.

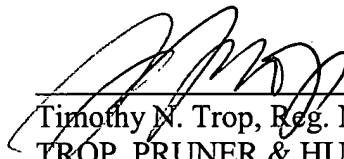
30 (Original). The camera of claim 28 including a processor adapted to automatically correct color when an input signal is received indicative of a calibration request.

31 (New). The method of claim 1 including measuring the ambient white light intensity.

32 (New). The article of claim 12 further storing instructions that enable the processor-based system to cause the measurement of ambient white light intensity to be taken.

Respectfully submitted,

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